

Redstone Arsenal

Hazardous Material Waste Management System

HMWMS

Title: Hazardous Material Waste Management System (HMWMS)

Installation: Redstone Arsenal, AL

POC: Dan Seaver (256) 876-6123

Mission Benefits: Enables Redstone Arsenal to comply with Federal, State and local laws and regulations and fulfills the various reporting requirements regarding Hazardous Material and Waste. The HMWMS aids in complying with the Emergency Planning and Community Right-to-Know Act and is applicable to Executive Order 13148. In addition, the HMWMS assists with pollution prevention efforts, as well as, hazardous waste minimization. Aids organizations in reducing material inventories. Organizations are able to better track their own products and have access to other arsenal users inventory information. Used as a safety tool, the HMWMS includes and makes available the manufacturer specific MSDSs for most of the unique products located at RSA. Also, RSA Fire department has access to the HMWMS system, which allows them to know exactly what hazards might be encountered from a specific hazardous material/waste in a particular area before responding to an emergency. The information available for the HMWMS can be used to list noted incompatibilities, risks, and firefighting methods specific to certain chemicals. Additions and upgrades include a fully web-based portion of the data input software which will allow users to input their inventory changes and submit to HMWMS team for approval and final input into database. This new addition allows all users across RSA full access to the current HMWMS database to include full inventory reports as well as specific product and container information and manufacturer specific MSDSs.



Cost Benefits: The HMWMS has reduced the overall cost of the management of hazardous materials/wastes to the RSA Garrison due to the reduction in hazardous materials and through the increase in organizational transfers of materials. Also, the cost and time required compiling and submitting required Federal and State reports has been drastically reduced since the implementation of the HMWMS.

Environmental Benefits: Hazardous materials and waste incompatibilities and storage requirements are stringently followed due to the ease of use of the HMWMS and the pertinent data that it provides to HAZMAT/HAZWASTE users at RSA. Awareness of less hazardous and safer substitute materials leads to fewer potential environmental impacts caused by chemical spills or handling mishaps.

Description: Redstone Arsenal has had an active Hazardous Material Waste Management System since 1995. Since the system was implemented, many of the classic environmental compliance issues have been eliminated due to the three overlapping categories which RSA integrated into the HMWMS. They are: A. Hazardous Material (HAZMAT): Identifying and tracking a hazardous substance from requisition through material lifespan. B. Hazardous Waste (HAZWASTE): Identifying and tracking a hazardous substance from waste generation through final disposition. C. Pollution Prevention and Hazard Minimization (HAZMIN): Planning, authorizing, auditing, and reviewing processes to reduce risk and pollution, including personnel protection and exposure information and regulatory reporting.

Regulatory Drivers (if any): AR 200-2, RSA 200-6, Executive Order 13148, 29 CFR 1910, and 40 CFR 260

Lessons Learned:

1. Centralized pharmacy concept would greatly increase the accuracy and percentage of items that are being tracked through the HMWMS.
2. Disallowing use of credit cards for HAZMAT purchases also would aid in the accuracy of the HMWMS.
3. Annual “snapshots” of system data and active inventory items should be taken. This will eliminate the need to “estimate” past inventory information for various reports.

Points of Contact:

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